ORT, M.; TICHY, V.

Measurement of permeability of plastic cable coverings. p. 211.

ELEKTROTECHNICKY CASOPIS, Bratislava, Czechoslovakia, Vol. 10, No. 4, 1959

Monthly list of East European Accessions. (EEAI) LC, Vol. 8, No. 10, Oct. 1959.
Uncl.

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ORT, M.; REZNIK, Z.; BOHACOVA, A.

Lowe's syndrome. Cosk. pediat. 16 no.9:816-822 S '61.

1. I detska klinika, prednosta prof. MUDr. J. Svejcar, a detske oddeleni OUNZ Kladno, prim. T. Adler.

(ABNORMALITIES) (KIDNEY abnorm)
(DWARFISM diagn)

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

ORT, M.; HANAK, J.; KOTTOVA, V.; REZNIK, Z.

Diagnosis and therapy of acute pyelonephritis in 279 children. Cesk. pediat. 17 no.7/8:685-690 Ag '62.

STASTNA, Jaroslava; ORT, Miroslav; RASKA, Blazej

Quantitative determination of urinary microbes by the membrane filter method. Cesk. pediat. 17 no.7/8:714-718 Ag '62.

1. Bakteriologicka laborator detske fakultni nemocnice v Praze, prednosta prof. dr. V. Kubelka I. detska klinika fakulty detskeho lekarstvi KU v Praze, prednosta prof. dr. J. Svejcar.

(URINE) (BACTERIOLOGICA TECHNICS) (KIDNEY DISEASES)

HANAK, J.; ORT, M.

Chloroquine in internal medicine. Preliminary report. Cas.lek.cesk 101 no.7:34-37 16 F *62.

1. I detska klinika KU v Praze, prednosta prof. MUDr. Josef Svejcar. (CHLOROQUINE ther)

CZECHOSLOVAKIA

RASKA, B., MD; POLACEK, E., MD; ORT, M., MD.

Chair of Hospital Pediatrics of Charles University
(Katedra nemocnicni pediatrie KU). Prague (for all)

Prague, Prakticky lekar, No 4, 1963, pp 136-139

"Conservative Treatment of Acute Anuria in Children."

Congenital disorders of renal tubular transport. Cesk. pediat.

18 no.5:417-421 My '63.

1. I detska klinika fakulty detskeho lekarstvi KU, prednosta prof. dr. J. Svejcar DrSc.

(KIDNEY TUBULES) (KIDNEY CALCULI)

(METABOLIC DISEASES) (ENZYMES)

(PROTEINURIA) (GLYCOSURIA)

(CYSTINURIA)

ORT,M.; KUCERA,J.; JANSA,M.

Importance of chromatographic analysis of the urine for the diagnosis of congenital metabolism disorders. Cesk. pediat. 19 no.3:204-210 Mr. 64.

1. I.detska klinika fakulty detskeho lekarstvi KU v Praze (prednosta: prof.dr. J.Svejcar) a Detske oddeleni UPMD v Praze (vedouci: doc.dr.K.Polacek).

ORT, M. ANDRYSEK, O.

Use of radioisotopes in pediatrics. Cesk. pediat. 19 no.7: 636 -639 Jl 64

1. I. detska klinika fakulty dotskeho lekarstvi KU [Karlovy university] v Praze (predmosta: prof. dr. J.Svejcar, DrSc.); Biofyzikalni ustav fakulty vseobecneho lekarstvi KU [Karlovy university] v Praze (prednosta: doc. dr. Z.Dienstbier, CSc).

ANDRYSEK, O.; ANDRYSKOVA, J.; BENDL, J.; BLEKTA, M.; HRADCOVA, L.; CHYTIL, M.; ORT, M.; RASKA, B.; VALNICEK, J.

Isotope examination methods of the uropoietic system in pediatrics and obstetrics. Acta univ. Carol. [med] (Praha): Suppl. 18: 41-44 '64.

1. Biofysikalni ustav fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: doc. dr. Z. Dienstbier); II. gynekologicko-porodnicka klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. J. Lukas); II. interni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. F. Herles); IV. detska klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. F. Herles); IV. detska klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. F. Blazek) a I. detska klinika fakulty pediatricke University Karlovy v Praze (prednosta: prof. dr. J. Svejcar).

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

ORT, M.; HANAK, J.; LIEBELKOVA, M.

Long-term therapy of the nephrotic syndrome with chloroquine. Cesk pediat. 19 no.10:890-893 0 '64.

1. Katedra nemocnicni pediatrie fakulty detskeho lekarstvi KU v Praze; vedouci prof. dr. J. Sevejcar, DrSc.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

ORT, P.M.

Socialist Competition

I challenge you to socialist competition. Sakh. prom 26 no. 6, 1952.

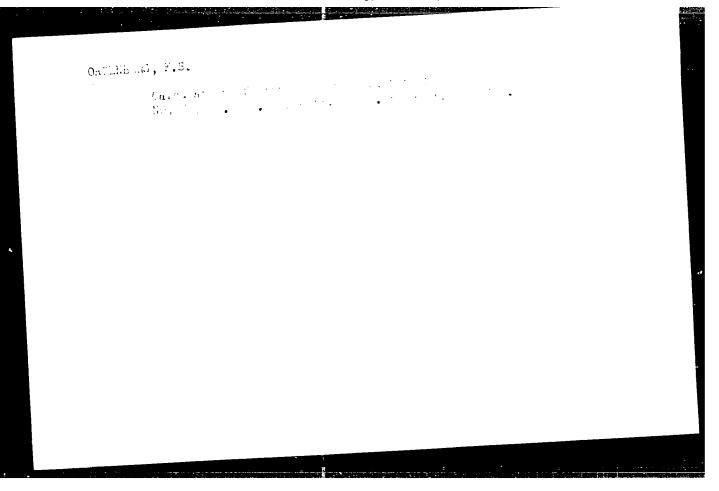
Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

ORTENBERG, F.3.; GLASKO, V.A.; EMITALIEV, K.J.

Probabilities of vit actional translations for band systems of some distance oxides. Part 2. Astron. zhur. 41 no.2:335-335 Mr Ap (MIRA 17:4) 164.

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektromekhanibi i Moskovskiy gosudarstvoorgy universitet im. M.V.Lomonosova.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



25 (6), 24 (7)
AUTHORS: Garger, K. S., Krivulya, G. D.,
Ortenberg, F. S., Trofimova, V. I.

SOV/32-25-5-18/56

TITLE:

Investigation of the Spectrum of the Converter Flame in Different Types of Blowing (Issledovaniye spektra konverternogo plameni pri razlichnykh sposobakh produvki)

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PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 5, pp 573-576 (USSR)

ABSTRACT:

The authors had already investigated the flame spectrum (FS) of the Bessemer process in the wave range of 3700-10000 Å with a blast of air (Refs 1, 2), on the basis of which a photoelectric control method of blowing through rail steel was introduced (Refs 3, 4). In the present case the investigation results of (FS) of new converter processes with the use of oxygen are given. The (FS) on blowing through cast iron with a vapor-oxygen mixture was investigated at the Yenakiyevskiy metallurgicheskiy zavod (Yenakiyevo Metallurgical Factory) with the co-operation of N. I. Goncharenko, A. B. Minster, A. D. Stakhurskiy and V. D. Umnov on the spectrograph ISP-28 and styloscope SL-3 (with photographic attachment). The lines Na, K, Li, Rb, Fe, Mn, Ca, Cu, Cr and Ga were plotted and it was observed that the spectrum Fe I is considerably richer in lines than on

Card 1/3

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Investigation of the Spectrum of the Converter Flame in Different Types of Blowing

SOV/32-25-5-18/56

blowing through with air (Fig 1). The (FS) on blowing through cast iron with oxygen from above was taken on the abovementioned styloscope and on a diffraction apparatus (with a replica) with the cooperation of V. M. Gorbovskiy and A. D. Stakhurskiy. A few investigation results are given concerning the spectrum in the case of air blowing through, which were obtained at the zavod im. Dzerzhinskogo (Factory imeni Dzerzhinskiy) on the spectrograph ISP-28, ISP-51, styloscope SL-3 and diffraction spectrograph. Measurements of flame temperature were made according to the method by Scholev (Ref 6), in which the spectrum was taken on films "Izoorto 45 Units GOST" and "Izopankrom" and photometry was made on the MF-2 apparatus. In evaluating the results obtained the authors mention that the increase of the intensity of the ultraviolet range in (FS) of the water vapor-oxygen blowing process according to (Ref 12) may be explained by a collision of 0 and CO corresponding to $CO + O \longrightarrow CO_2 + h\nu$ (1). There are 3 figures and 14 references, 11 of which are Soviet.

Card 2/3

Investigation of the Spectrum of the Converter

SOV/32-25-5-18/56

Flame in Different Types of Blowing

ASSOCIATION:

Dneprodzerzhinskiy vecherniy metallurgicheskiy institut (Dneprodzerzhinsk Metallurgical Institute (Evening School)

Card 3/3

ORTENBERG, F.S.

Possibility of measuring temperature by the relative intensity of bands of the B'L' > X'L' system of the BeO molecule. Urk. fiz. zhur. 5

1. Dneprodzerzhinskiy vecherniy metallurgicheskiy institut.
(Beryllium oxide—Spectra)

no. 5:645-649 S-0 '60.

(Temperature-Measurement)

(MIRA 14:4)

GARGIR, K.S.; KRIVULYA, G.D.; ORTENBERG, P.S.

Spectrum obtained from the flame of a converter in which cast iron is blown by a steam oxygen mixture. Inzh.-fiz.zhur. no.6:72-75
Je '60.

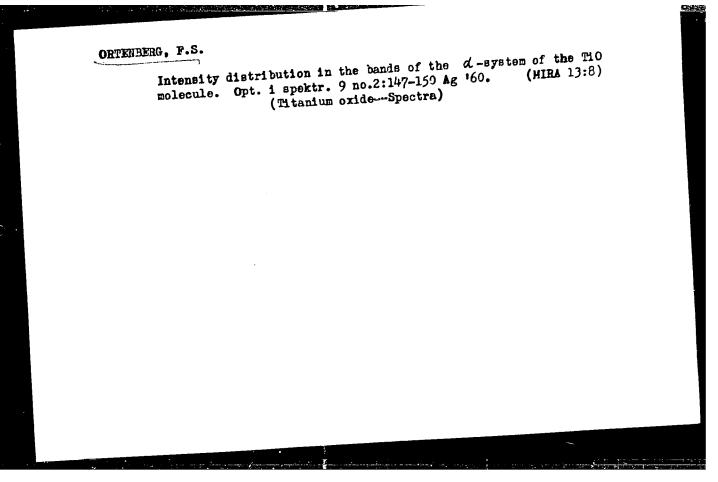
1. Vecherniy metallurgicheskiy institut, g. Dneprodzerzhinsk.

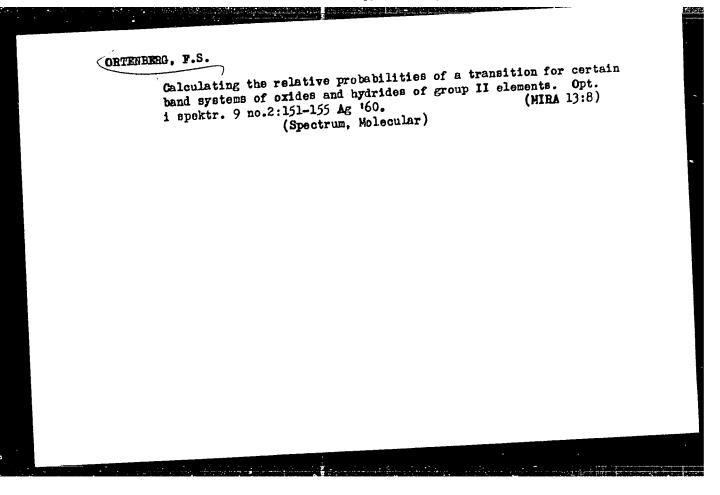
(*lame--Spectra) (Converters)

GARGER, K.S.; KUZNETSOV, M.F.; ORTENBERG, F.S.; GERÁSIMCHUK, R.V.;
LYAUDIS, B.V.

Burning up of carbon during the converter process. Izv.vys.ucheb.
zav.; chern.met. no.7:32-36 '60. (MIRa 13:8)

1. Dneprodzerzhinskiy vecherny metallurg:cheskiy institut i
Dneprovskiy metallurgicheskiy Bavod im. Dzerzhinskogo.
(Bessemer process) (Carbon)





s/033/60/037/006/010/022 E032/E514

3.1570 (1062,1129,1172)

Ortenberg, f.S.

AUTHOR:

On the Possible Determination of the Temperature of M and S Type Stars using the Relative Intensity of ZrO Bands

PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol.37, No.6, pp. 1008-1011

TEXT: The relative transition probabilities $P_{v^{\dagger}v^{\dagger}}$ for the $\alpha-$ and $\gamma-$ systems of ZrO molecular bands are calculated, using the method described by Fraser and Jarmain (Ref. 7) and Nicholls and Jarmain (Refs. 8,9 and 10). According to the latter authors, the relative probability can be expressed in terms of the Frank-Condon factors

 $q_{\mathbf{v}^{\dagger}\mathbf{v}^{\dagger}} = \left| \int \psi_{\mathbf{v}^{\dagger}} \psi_{\mathbf{v}^{\dagger}} d\mathbf{r} \right|^{2}$ (1)

using the expression

$$\mathbf{P}_{\mathbf{v}^{\dagger}\mathbf{v}^{\dagger}} = \mathbf{R}_{\ell}^{2} \left(\bar{\mathbf{r}}_{\mathbf{v}^{\dagger}\mathbf{v}^{\dagger}}\right) \mathbf{q}_{\mathbf{v}^{\dagger}\mathbf{v}^{\dagger}} . \tag{2}$$

Card 1/6

TITLE:

87251 \$/033/60/037/006/010/022 E032/E514

On the Possible Determination of the Temperature of $\,M\,$ and $\,S\,$ Type Stars using the Relative Intensity of ZrO Bands

In the numerical calculations the molecular constants $\omega_{\rm e}$, $\omega_{\rm e}$ x and rewere taken from the paper of Afar (Ref.11). The Frank-Condon factors for the transitions $C^2 \Pi - X^3 \Pi$ (\$\alpha\$-system) and $A^3 \Sigma - X^3 \Pi$ (\$\gamma\$-system) were calculated using the Morse "simplified" potential method (Ref.7). The Frank-Condon factors obtained in this way are in good agreement with results obtained using numerical integration, in good agreement with results obtained using numerical integration. The values of $r_{\rm v'v''}$ (the internuclear distance) were calculated using the graphical method of Nicholls and Jarmain (Ref.8). The dependence of the electron transition moment \$R\$ on the internuclear distance was obtained semi-empirically and the results are:

$$R_e(r) = e^{-6.97 \ r}, 1.43 \ \text{Å} < r < 1.60 \ \text{Å}$$
 (3)

and

$$R_e(r) = -1 + 0.788 r ; 1.37 Å (r (1.55 Å) (4))$$

Table 1 gives the Frank-Condon factors, the values of $\tilde{r}_{v^+v^{+-}}$ and Card 2/6

S/033/60/037/006/010/022 E032/E514

On the Possible Determination of the Temperature of M and S Type Stars using the Relative Intensity of ZrO Bands

the relative transition probabilities $P_{v'v''}$ for the α -system of ZrO, and Table 2 gives the corresponding values for the γ -system:

	D*					
v*	0	1	2	3	4	
$0 \begin{cases} q_{v'v''} \\ -r_{v'v''} \\ P_{v'v''} \\ P_{v'v''} \\ -r_{v'v''} \\ P_{v'v''} \\ -r_{v'v''} \\ -r_{v'v''} \\ P_{v'v''} \\ -r_{v'v''} \\ -r_{v'v''} \\ -r_{v'v''} \\ -r_{v'v''} \\ -r_{v'v''} \\ -r_{v'v'''} \\ -r_{v'v''''} \\ -r_{v'v''''} \\ -r_{v'v'''''} \\ -r_{v'v'''''''} \\ -r_{v'v''''''''''''''''''''''''''''''''''$	0.115 1.472 0.372 0.221 1.448 1.000 0.235	0.278 1.500 0.608 0.156 1.475 0.482 0.009 1.452 0.039 0.028	0.302 1.529 0.443 0.043 1.503 0.091 0.111 1.478 0.330 0.104	0.195 1.562 0.181 0.115 1.533 0.159 0.048 1.507 0.094	0.083 1.596 0.049	
$3 \begin{cases} \frac{q_{v'v''}}{r_{v'v''}} \\ P_{v'v''} \end{cases}$	0.107	1.430	1.454			

Card 3/6

5/033/60/037/006/010/022 E032/E514

On the Possible Determination of the Temperature of M and S Type Stars using the Relative Intensity of ZrO Bands

Table 2

	υ"					
v '	0	i	2	3		
$0 \begin{cases} q_{v'v'} \\ r_{v'v'} \\ P_{v'v'} \\ P_{v'v'} \end{cases}$ $1 \begin{cases} q_{v'v'} \\ r_{v'v'} \\ P_{v'v''} \\ P_{v'v''} \\ q_{v'v''} \\ q_{v'v''} \\ P_{v'v''} \\ P_{v'v''} \\ P_{v'v''} \end{cases}$	0.462 1.450 0.766 0.335 1.412 0.347 0.170 1.377 0.100 0.061	0.380 1.497 1.000 0.023 1.453 0.039 0.268 1.415 0.290 0.248 1.380 0.154	0.110 1.546 0.427 0.264 1.501 0.719 0.068 1.457 0.122 0.105 1.418 0.118	0.019 0.170 0.046 1.500 0.124		

Card 4/6

S/033/60/037/006/010/022 E032/E514

On the Possible Determination of the Temperature of M and S Type Stars Using the Relative Intensity of ZrO Bands

These values of $P_{v'v''}$ can be used to measure the excitation temperature of the atmospheres of type M and S stars. It is well known that the total absorption $K = \int K_v dv$ can be expressed in terms of the transition probability $P_{v'v''}$ by the formula:

$$K = C \gamma P_{\mathbf{v}^{\dagger} \mathbf{v}^{\dagger}} e^{-\mathbf{E}(\mathbf{v}^{\dagger})/k' \mathbf{1}_{\mathbf{v} \mathbf{1}} \gamma_{\mathbf{r}}}$$
(5)

where C is a constant which is the same for all the bands of a given system, \vee is the transition frequency and E(v'') is the magnitude of the vibrational term of the lower electron state. This equation holds for low intensity bands and provided the molecules are distributed over the vibrational levels of the lower state in accordance with the Boltzmann distribution. The relation can be used to obtain a further relation for the vibrational temperature $T_{\rm vibr}$, namely

Card 5/6

s/033/60/037/006/010/022 E032/E514

On the Possible Determination of the Temperature of M and S Type Stars Using the Relative Intensity of ZrO Bands

0.624
$$\frac{E_1(v'') - E_2(v'')}{T_{vibr}} = 1g \frac{v_1}{v_2^2} + 1g \frac{P_1}{P_2} + 1g \frac{k_2}{k_1}$$
 (6)

where the energies are expressed in cm⁻¹, There are 2 tables and 15 references: 2 Soviet, 13 non-Soviet.

SUBMITTED: April 6, 1960

Card 6/6

8/170/61/004/005/010/015 B111/B214

AUTHOR: .

Ortenberg, F. S.

TITLE:

The problem of thermodynamic equilibrium in arc discharge

PERIODICAL:

Inzhenerno-fizicheskiy zhurnal, v. 4, no. 5, 1961, 94-95

TEXT: In thermodynamic equilibrium the energy is equally divided among all degrees of freedom of the various components. This equilibrium is established when all components have the same temperature. The present paper gives a comparison between the temperatures obtained from two different pairs of vibration bands of the electronic-vibrational band of CN and MgO molecules. For this purpose, the occupation of the vibrational levels in the discharge channel was investigated. An a.c. are between carbon and magnesium electrodes was studied for air at atmospheric pressure. The voltage source was a generator of the type AC-2 (DG-2). The current strength was 4 amperes, and the electrode gap was 2 mm. The spectroscopic investigation was made by an apparatus of the type MCH-28 (ISP-28). The spectrograms were taken on isoortho plates of 65 GOST units and isochromic plates of 45 GOST units. The temperature of the arc was determined from the relative Card 1/2

3/170/61/004/005/010/015 B111/B214

The problem ...

intensities in the maximum of the band pairs of CN 4167/4216 and 4181/4216. Its value was found to be (3900 ± 80)°K, where the error is the root mean square error of 10 measurements. The vibrational temperature of MgO was obtained by applying the pyrometric formula for the relative intensities of the green band groups of MgO derived in "Opt. 'i spektroskop., IV, 168, 1958":

 $\frac{508}{T} = 0.017 + \lg \frac{I_{4967}}{I_{8007}}.$

(1), and

 $\frac{1011}{T} = 0.04 + \lg \frac{I_{4988}}{I_{5007}}.$

(2).

There are 4 Soviet-bloc references.

ASSOCIATION: Vecherniy metallurgicheskiy institut im. Arsenicheva g.

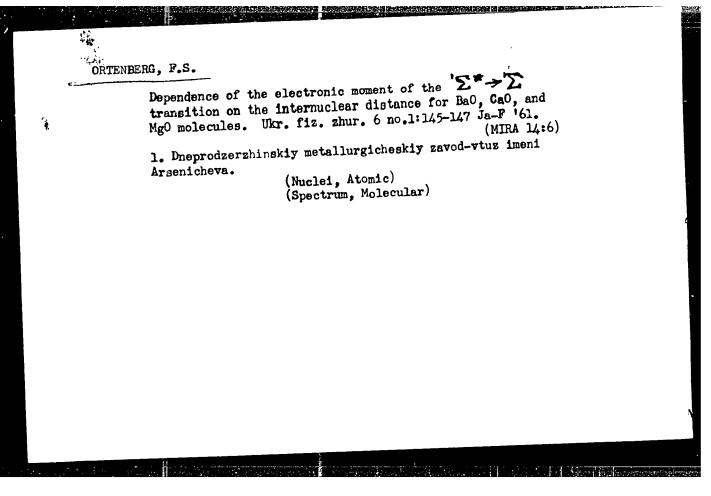
Dneprodzerzhinsk (Evening Institute of Metallurgy imeni

Arsenichev, Dneprodzerzhinsk)

SUBMITTED:

August 6, 1960

Card 2/2



\$/051/61/010/002/003/003 E201/E291

11.5100 AUTHORS:

Ortenberg, F. S. and Nesterko, N. A.

TITLE:

The Effective Vibrational Temperature of the

Acetylene-Air Flame

PERIODICAL:

Optika i spektroskopiya, 1961, Vol. 10, No. 2,

pp. 270-272

TEXT: The present paper deals with the vibrational energy distribution of various radicals in acetylene-air flames. The energy distribution is deduced from the vibrational bands of the flames which are assigned an effective vibrational temperature. This can be done only if reliable values of transition probabilities are available. The authors studied the intensity distribution of the vibrational bands of C2 and BaO molecules which were located, respectively, in the inner and outer "cones" of acetylene-air flames (ll% C2H2) burning at atmospheric pressure. The BaO bands were obtained by introducing solutions of BaCl2 (O.1 molar conc.) by means of an atomizer. The spectra were recorded with a glass Zeiss spectrograph of medium dispersion; the slit width was 0.03 mm. Isochromatic plates were used; their

Card 1/4

S/051/61/010/002/003/003 E201/E291

The Effective Vibrational Temperature of the Acetylene-Air Flame sensitivity was 65 FOCT (GOST) units. The exposures were such that the BaO and C₂ band edges were of easily measurable optical densities. The band intensities were taken to be the intensities of the band edges, after subtraction of the continuous background and other bands near the edge. The effective vibrational temperature, T_{vib}, was deduced from

 $I = \frac{CP_{\sigma\sigma}}{\lambda^4} e^{-\frac{i\pi V}{kT_{cont}}}$ Equation 1

where C is a coefficient which is constant for all bands in one electronic-vibrational system; $P_{\mathbf{V'V''}}$ is the relative probability of the relevant transition; λ is the wavelength of the transition; $E(\mathbf{v'})$ is the energy of the upper vibrational term. The dependence of $\log I - \log \left(P_{\mathbf{V'V''}}/\lambda^4\right)$ on $E(\mathbf{v'})$ should be a straight line (for Boltzmann or pseudo-Boltzmann distribution of energy in vibrational levels) whose slope gives $T_{\mathbf{V'V''}}$ The relative values of the transition probabilities $P_{\mathbf{V'V''}}$ for the C2 and BaO bands were taken from published work. The straight lines used to find

Card 2/4

88676 s/051/61/010/002/003/003 E201/E291

The Effective Vibrational Temperature of the Acetylene-Air Flame
Type were constructed by the least-squares method. Typical
results for the BaO bands (the lower line) and the C2 bands (the
upper line) are given in Fig. 2. The mean value of T3 obtained
from the BaO bands was 2200°K. The equality of this value with
from the BaO bands was 2200°K. The equality of this value with
the result obtained by one of the authors and Rossikhin (1959)
for the same flame using reversal of the resonance sodium line,
and the small scatter of the experimental points (Fig. 2) both
indicate that the outer "cone" (situated about 0.5 cm above the
reaction zone of the flame) is in thermodynamic equilibrium. The
value of T3 deduced from the BaO bands in a region which
included the tip of the inner "cone" gave a somewhat smaller
value of temperature with a larger scatter of the experimental
results, indicating some departure from thermodynamic equilibrium.
The value of T3 deduced from the C2 bands in the inner "cone" of
the flame was 2000°K. This high value and the 3600°K effective
rotational temperature, deduced from the rotational structure of
the C2 bands in the inner "cone" of a stoichiometric acetylene-air
mixture flame, both indicate that there is no thermodynamic

Card 3/4

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238

\$/051/61/010/002/003/003 E201/E291

The Effective Vibrational Temperature of the Acetylene-Air Flame equilibrium in the reaction zone of the flame. Acknowledgement is made to V. S. Rossikhin for his advice. There are 2 figures and 10 references: 4 Soviet and 6 non-Soviet.

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SUBMITTED: July 13, 1960

Fig. 2

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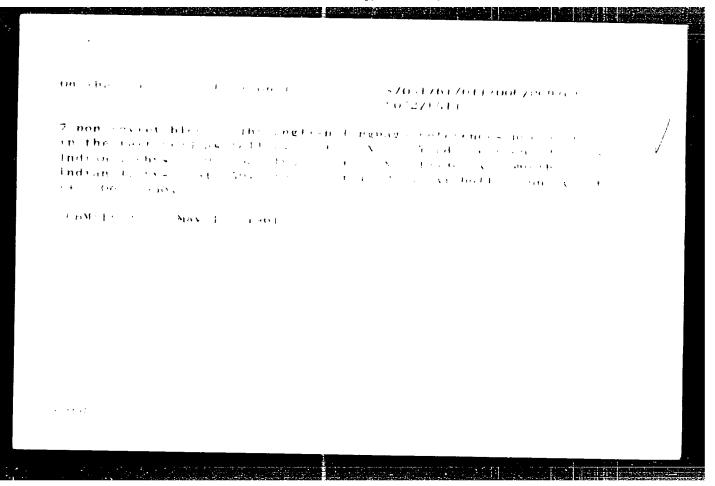
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s determin	ed and recovery to the transfer evaluated and notice of the transfer evaluated and the transfer evalua
	$J_{\mathbf{v}^{(1)}} = \mathbf{k} = \frac{\sum_{i=1}^{n} \mathbf{v}^{(i)}_{i} \mathbf{v}^{(i)}_{i}}{\sum_{i=1}^{n} \mathbf{v}^{(i)}_{i}}$

"APPROVED FOR RELEASE: Wednesday, June 21, 2000

CIA-RDP86-00513R001238

The second of the Automotion of the second o The tree of the first $v(e) = \frac{1}{\sqrt{|\chi|^6}} e^{-i(\mathbf{s} + \mathbf{t})} \mathbf{h}(e) + e^{-i(\mathbf{s} +$ encrementeer distance too the wavent of x_{ij} is the example to a three corresponding to the second constant of the following puls and geometry of the exercise of the entertheories errors out using East (11) and the on Ref. to the conservation of Process the some some state of the solution of the trops foreigned by the wissers on the constant Research of Speaker. 1969) The Franck common carters were earlied at using the common of oscillator and Monse on I. ms . The dependence of the object of assumed to be 4 4 4 6 10 copt 1 1.6 Phillips of an experience of Cort 2/4

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ORTENBERG, F.S.

Relative intensity of α hands and γ systems of the ZrO molecule. Astronyzhur. 38 no.4:776 Jl-Ag '61. (MIRA 14:8)

1. Institut teplofiziki AN SSSR.
(Zirconium oxide—Spectra)

S/185/62/007/011/011/019 D234/D308

AUTHOR:

Ortenberk, F.S.

TITLE:

Investigation of electron-vibrational band systems

of some diatomic molecules

PERIODICAL:

Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 11, 1962,

1223-1225

TEMT: Graphs of the Frank-Cordon factors are given for the 0,0 band, as functions of $\overline{\chi} \Delta r_e$ and $(\omega_{el}/\omega_{es}) \exp(\overline{\chi} \Delta r_e)$ computed by α -averaging Morse potentials; also graphs of $\overline{r_{v'v'}}$ as a function of wavelength for the green band system of $\log 0$, and the electron moment of the $1 \sum * \rightarrow 1 \sum$ transition as a function of internuclear distance for CaO. There are 3 figures.

ASSOCIATION:

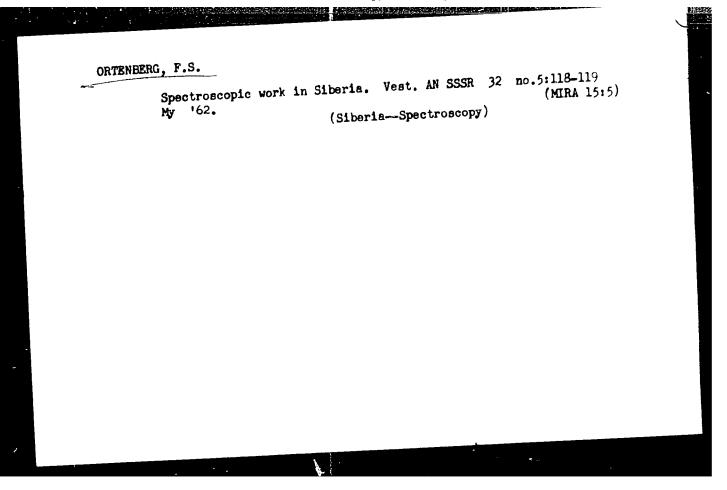
Instytut teplofizyky SV AN SRSR (Institute of Heat

Physics, SV AS USER)

SUBMITTED:

March 24, 1962

Card 1/1



BR

ACCESSION NR: AP4035471

8/0051/64/016/005/0729/0734

AUTHOR: Ortenberg, F.S.

TITLE: Calculation of the Franck-Condon factors for some band systems of NO, ${\rm C_2}$ and CO

SOURCE: Optika i spektroskopiya, v.16, no.5, 1964, 729-734

TOPIC TAGS: Franck-Condon factor, vibrational spectrum, vibronic transition probability, nitrogen oxide, carbon, carbon monoxide

ABSTRACT: The vibrational probability in vibronic transitions is determined by the Franck-Condon factor $q_{V^\dagger V^{\dagger\prime}}$, which is equal to the square of the integral of overlapping of the vibrational wave functions. Various approaches have been used for obtaining more accurate values of the factors; these are based on different potential functions, theoretical and experimental. In the present work the $q_{V^\dagger V^{\dagger\prime}}$ were calculated using the solution adduced by F.S.Ortenberg and V.B.Glasko (Astronomicheskiy zhur.39,921,1962) on the basis of Morse potentials. This approach has certain advantages, which are set forth briefly. The necessary integrals were calculated with the aid of an M-20 computer, using Simpson's formula. The values of the molecular con-

Cord 1/2

ACCESSION NR: AP4035471

stants used in the computations are tabulated. Further tables present the Franck-Condon factors for different \mathbf{v}'/\mathbf{v}'' ratios for the Beta band system of NO, the Gamma system of NO, the Swan system of C_2 , the Phillips system of C_2 , the third positive system of CO, the Angstrom system of CO, and the fourth positive system of CO. It is noted that, while some of the results are accurate, others must be regarded as only approximate or indicative in view of the undertainty in the molecular constants on which the calculations were based. "I thank N.N.Sobolev for his interest in the work, and V.B.Glasko and A.I.Dmitriyev for assistance." Orig.art.has: 8 tables.

ASSOCIATION: none

SUBMITTED: 25Ju163

DATE ACQ: 22May64

ENCL: 00

SUB CODE: OP

NR REF SOV: 001

OTHER: 006

Cord 2/2

ACC NR: AP/001745

SOURCE CODE: UR/0053/66/090/002/0237/0273

AUTHOR: Ortenberg, F. S.; Antropov, Ye. T.

ORG: Physics Institute im. P. N. Lebedev, AN SSSR (Fizicheskiy institut AN SSSR)

TITLE: Probabilities of electron vibrational transitions in diatomic molecules

SOURCE: Uspekhi fizicheskikh nauk, v. 90, no. 2, 1966, 237-273

TOPIC TAGS: diatomic molecule, optic transition, dipole moment, electron transition,

nuclear structure

ABSTRACT: This is a review article devoted to the advances made in quantitative studies of the distribution of intensity in spectra of diatomic molecules and radicals during the last decade, with special attention to more rigorous methods of calculations, to modernization of the experimental techniques, to various shortcomings of the customarily employed Franck-Condon principles, to new calculations of the Franck-Condon factors, and to the dependence of the dipole moment of the electron transitions on the internuclear distance. The results of all the presently known calculations of the dipole moment of transitions for different internuclear distances are first summarized. Calculation of the Franck-Condon factors by means of various models is then discussed and an extensive table of electronic transitions in diatomic molecules for which the Franck-Condon factors have been calculated is presented. Experimental methods of measuring the transition probabilities are described, with emphasis on shock-tube techniques. The dependence of the electron-transition moments

Card 1/2

UDC: 535.338.41

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TUB CODE:	20/	SUBM DATE	: ∞/	ORIG REF:	045/	OTH REF:	228	
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15-57-3-3383

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3,

pp 133-134 (USSR)

Sherman, M. M., Nezhinskaya, L. D., Ortenberg, M. N., AUTHORS:

Gol'dshteyn, F. K.

The Skimming Method of Preparing Paste for Production TITLE:

of Ceramic Floor Tile (Shlikernyy sposob podgotovki massy dlya proizvodstva keramicheskikh plitok dlya

polov)

Tr. Stud. nauch. o-va Khar'kovsk. politekhn. in-ta, PERIODICAL:

1956, Vol 1, Nr 1, pp 61-65

The authors used the Slavyanskiye gliny (clays) of the APSTRACT:

Nikolayevskoye and Nikiforovskoye deposits (Donets Basin) for making the tile. The iron content in these clays ranges from 1.9 to 2.9 percent and produced an intense coloration on firing the tile. Because of the high degree of dispersion and plasticity of the clays of

the Nikolayevskoye and Nikiforovskoye deposits they

are hard to separate by filtration. It was ascertained Card 1/2

The Skimming Method (Cont.)

that the addition of dehydrated clay (20 percent) increased the rate at which the clays could be separated by filtration.

Card 2/2

S. P. Sh.

\$/006/60/000/009/002/00² B012/B054

AUTHOR:

Ortenberg, N. A.

TITLE:

A New Method of Reducing the Astronomic Coordinates and Ita

Application in the Method of Equal Altitudes

PERIODICAL:

Geodeziya i kartografiya, 1960, No. 9, pp 21.31

TEXT: The present paper describes a new method of transforming astronomic coordinates. It provides for mathematical operations with mean equatorial coordinates (for the corresponding period of time). Besides, corrections due to precession, nutation, and aberration are directly introduced in the geographical coordinates obtained Matrix operations are used to derive the formulas required (Ref., footnote p. 21, V N. Fadeyeva). First, the rectangular coordinates are transformed by turning the system round each of the axes. Then, the whole coordinate system is turned through a small angle round an axis of arbitrary position running through the center of the system. To render matrix operations possible, the author passes over from the spherical coordinates of the stars to rectangular coordinates. Finally, he obtains the transformation of the horizontal coordinates into

Card 1/3

A New Method of Reducing the Astronomic Coordinates and Its Application in the Method of Equal Altitudes \$/006/60/000/009/002/003 B012/B054

equatorial coordinates for the initial period of time in the matrix form of formula (10). Now he only investigates the influence of annual aberration on equatorial coordinates since the daily aberration is considered separately in every particular case. Subsequently, he investigates the reduction of latitude, time, zenith distance, and azimuth of stars due to 1) precession and nutation, and 2) aberration. For reasons of simplicity, the author used reduction formulas of the second type For practical purposes, the reduction quantities of the first type suggested by Bessel would be more convenient. Subsequently, the author describes useful procedures for reducing the time- and latitude corrections for the time of observation, using the terms employed by the Astronomicheskiy yezhegodnik SSSR na 1960 g. AN SSSR, 1957 g. (Astronomical Annual of the USSR for 1960 of the AS USSR, 1957) Then, the author deals with useful procedures of calculating the corrections due to aberration. He obtains the final formulas (19) for calculating corrections due to precession. nutation, and aberration. It is pointed out that, if special tables for 20-25 years are available, the method described simplifies considerably the calculations by Mazayev's method of equal altitudes Corresponding

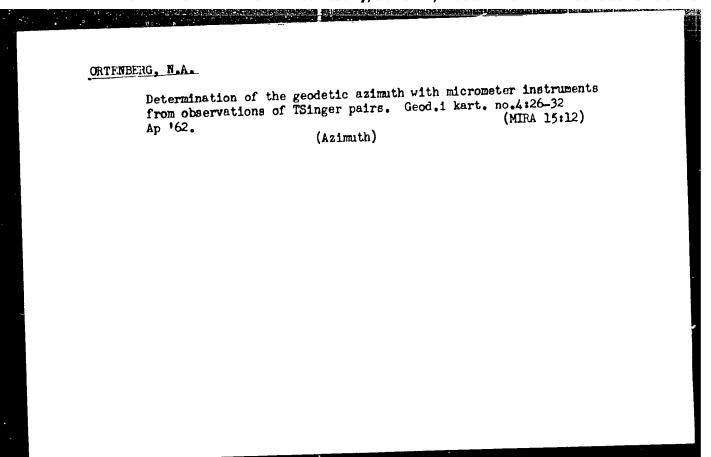
Card 2/3

A New Method of Reducing the Astronomic Coordinates and Its Application in the Method of Equal Altitudes

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considerations are put forward in this connection. The method is illustrated in Table 2 shown by the calculation of latitude- and time corrections. It is pointed out that the reduction method described may also be used with other procedures for the astronomic determination of latitudes, longitudes, and azimuths, e.g., in evaluating observations according to Tsinger's method. It is assumed that calculation of latitude according to Pevtsov's method can also be much simplified by the method described here. There are 3 figures, 2 tables, and 1 Soviet reference

Card 3/3



s/148/60/000/007/U18/023/XX A161/A033

18 3200

AUTHORS:

Garger, K. S.; Kuznetsov, M.P.; Ortenberg, R. V.; Gerasin huk.

R. V.; Lyaudis, B. V.

TITLE:

The burning-out of carbon in the converter process

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya meta lurgiya.

no. 7, 1960, 32 - 36

A continuous and direct analysis of steel in the converter being TEXT: still too difficult, the samples are analyzed after tilting. The method is connected with loss of time and impairs the life of converters. In principle, sampling is possible without stopping the blast, and the analysis lasts 5 - 6 min. Therefore the sample must be taken in the first half of the heat (in the 4th minute). The dependence of the carbon content (2C) on time must be known to determine the moment when the process is to be stopped. As proven by S. I. Filippov et al. (Ref. 2: Nauchnyye doklady vysshey shkoly, Metallurgiya, 1958, No. 2, 24) component elements burn simultaneously but at a different rate depending on the metal temperature the $Z_{C} = f(t)$ equation being determined by

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The burning-out of carbon in the

these rates. Two types of kinetic carbon burning curves have been fourt in experiments with a 8 kg laboratory induction furnace (Ref. 1: S. I. Filipov, Teoriya protsessa obezuglerozhivaniya stali (Theory of the steel decarponization process) Metallurgizdat, 1956) below 1500°C the burning is slower, and above 1500°C in the second half of the heat it is higher and constant.

$$\frac{dZ_{C}}{dt} = B$$

At Z_{C} below 0.2 % C, the carbon oxidation rate is inhibited by diffusion. The constant carbon burning rate is taken as the basis of the US patent (Ref. 3: D. Murphy, US Patent No. 2807537, 1957). The purpose of the present work was to find the equation for the carbon burning curves throughout the converter heat (Figure 1) to apply electronic computers for the converter process control. Two heat groups were studied, with sampling at tilts, and by "freezing on". To eliminate the dependence on the iron charge and C content in iron $(Z_{\mathbb{C}}^{0})$ a relative

value was used instead of Z_C , $\psi = \frac{Z_C}{Z_C^0}$. The time moment value $\varphi = 0.7$ was chosen

Card 2/6

23173 S/148/60/000/007/018/023/XX A161/A033

The burning-out of carbon in the

for the time unit after a careful analysis. It corresponds to 3.0 - 3.2 for the metal bath, when Mn and Si in most cases are already no longer burning. This rated time is designated by T. The carbon burning equation finally evolved for the case of air blast through bottom (curve 1 in Figure 3) is:

$$Z_{c} = Z_{c}^{o} \exp (-0.331 \tau^{2.936}).$$
 (3)

It can apparently be applied to any converter process. The equation for the carbon burning rate ω c is easily obtained by differentiating the expression (3)

$$\omega_{\rm t} = \frac{d\Psi}{dt} = -0.972 \tau^{1.936} \exp(-0.331 \tau^{2.936}) \tag{4}$$

The burning maximum is at T = 1.265, and the CO concentration in the separating gas is highest at this moment. The accuracy of the data obtained was checked by the "confidence interval method". Curves 3 and 4 present the results of calculations, with dependabilities 0.90 and 0.80. It was concluded that linear approximation is only applicable for short time intervals. The equation may be presented in the form of nomograms or tables. Computers would calculate the

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Card 3/6

23173

S/148/60/000/007/0018/023/XX A161/A033

The burning-out of carbon in the

moment for the process stop more accurately. A. M. Kublitskiy, V. A. Savehenk, and Yu. K. Siryachenko took part in the experiments; some data were obtained collectively with V. I. Yavoyskiy, G. N. Oyks and L. S. Tsykin of the Moskovskiy institut stali (Moscow Steel Institute). M.P. Kuznetsov carried out the first tests with the "freezing-on" sampling method. There are 4 figures and 7 references: 6 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads: D. Murphy, USA Patent No. 2807537, 1957.

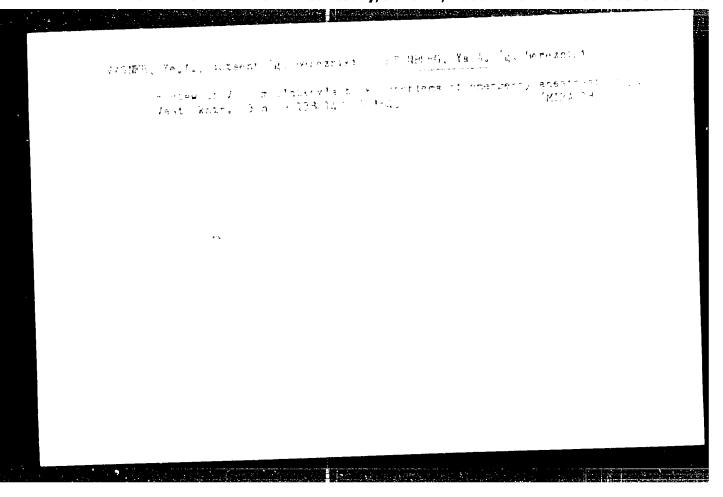
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ASSOCIATION: Dneprodzerzhinskiy vecherniy metallurgicheskiy institut (Dneprozerzhinsk Metallurgical Evening Institute) and Dneprovskiy metallurgicheskiy zavod im. Dzerzhinskogo (Dnepr Metallurgical Plant

im. Dzerzhinskiy)

SUBMITTED: March 1, 1960

Card 4/6



ORTH, Albin, inz.

Handling concrete mixtures with the adjusted T-107 loader.
Poz stavby 12 no. 1:29-30 '64.

1. Hydrostav Bratislava, n.p.

ORTHEAYR A. A Pecsi Tudomanyegyetem Ideg - es Elmeklinikajanak kozlemenye. A praefrontalis lolotomia eredmenyeirol. I. Klinikai resz The results of prefrontal lobotomy. I. Clinical aspects Orv. Hetil. 1950, 91/29 (897-900)

Prefrontal leucotomy was performed on 32 patients by the method of Freeman and watts. In the great majority of the cases the diagnosis was chronic schizophrenia. No. mortality. One third of the patients recovered socially, one third improved, the remaining third showed no remarkable change. Leucotomy abolishes anxiety states and emotional tension; it also influences delusions and paranoid ideas favourably. Leucotomy is a valuable method, in the treatment of mental diseases including chronic cases.

Angyal - Eudapest

So: Neurology & Psychiatry Section VIII, Vol. 4, No. 1-6

CIA-RDP86-00513R001238 CRIHAMAYTR, Alajosne KOCSIS, Gaborne, dr.; ORTHAMAYER, Alajosne, dr Studies on periodontosis in school children in Pecs. Fogorv. szemle 47 no.8:261-264 Aug. 54. 1. Koslemeny a pacsi orvostudomanyi egyetem stomatologiai klinikajarol(Az Egesssegugyi Tudomanyos Tanacs tamogatasaval vegzett visagalatok.) (PERIODONTIUM, diseases, in child., in Hungary)

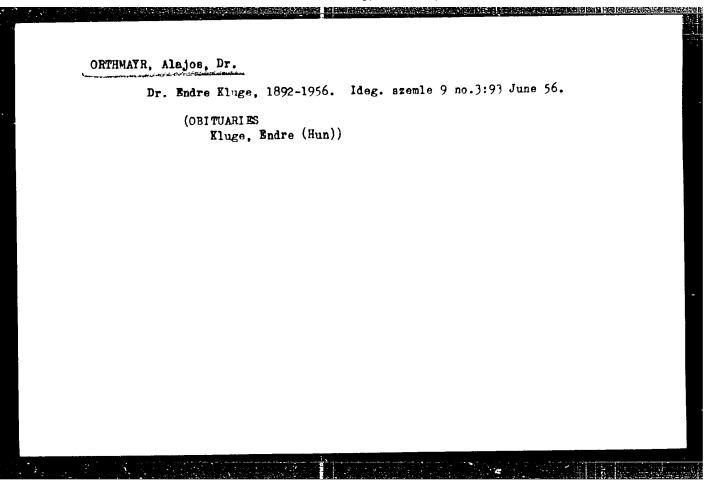
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BOSZORMENYI, Zoltan, dr.,; GIMNS, Miklosne, dr.,; ORTHMAYR, Alajos, dr.

Pharmacodynamic effects and therapeutic results of largactil in psychiatry. Orv. hetil. 96 no.38:1039-1045 18 Sept 55.

1. Orszagos Ideg- es Elmegyogyintezet (igazgato: Gimes Miklosne dr.)

(CHLOROFROMAZINE, therapeutic use, ment. disord.)

(MENTAL DISORDER, therapy, chloropromazine)
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Country : HUNGARY Catogory = : Pharmacology and Toxicology. Narcotics Abs. Jour. : Ref Zhar-biol, No 13, 1958, No 61367 : Csalay, L.; Ludany, G.; Orthmayr, A. author Institut. Title : Effect of Appothermia and Pharmacological Hibernation on the Increase of Pressure of the Jerebrospinal Ruid under Conditions of Hypoxia Orig. Pub. : Kiserl. oryostud., 1957, 9, No 4, 370-374 Abstract : A mixture of N (945, and Op (6%) was introduced intratrached by into cats narcotized with chloralose (6.1 5./kg.); as a result, the pressure of the cerebrospinal fluid (PCF) increased. PCF was determined with a menometer by means of cisternal puncture. After a 10-minute inhalation of the sas mixture and subsequent restitution, hypothermis was induced in the animal. Thereafter. hypoxia was induced repeatedly by the above-mentioned method and PCF was measured. In the first Cari: 1/3

7 Country Category Abs. Jour. : Ref Zhur-Biol, No 13, 1958, No 61307 Author Institut. Title Orig Pub. : group of animals (eight), it was established that, under conditions of hypoxia in hypothermia Abstract induced by physical means (body temperature 31-32°), PCF increases by 41% less than at normal body temperature, and in hypothermia induced by the administration of 5 mg./kg. of Largectil and 3 mg./kg. of Phenergan, the increase is by 28% less (seven animals). In hypothermia, under conditions of hypoxia, the blood pressure decreases on the average, by 20 mm. of mercury column. The

: HUNGARY : Pharmacology and Toxicology. Tranquilizers Country Category Abs. Jour. : Ref Zhur-Biol, No 13, 1958, No 61373 : Csalay, L.; Ludany, G.; Orthmayr, A. : Hungarian Academy of Sciences Author Institut. : Effect of Hypothermia and Pharmacological Hibernation on the Increase of Cerebrospinal Muid Title Pressure Due to Hypoxia : Acta med., Acad. sci. hung., 1957, 10, No 4, Orig Pub. 115-1,20 : The effect of exogenous hypothermia and pharma-Abstract cological hibernation on the increase of cerebrospinal fluid pressure due to inspiration of a nitrogen-oxygen (5,3) gas mixture was studied on cats narcotized with chloralose. Hypothermia decreases the rise of the fluid pressure due to hypoxia by 11% on the average. A similar effect is also observed in intravenous administration of chlorpromazine (5 mg./kg.) and promethazine (3 mg./kg.). Onlorpromazine by itself has no 1/2 Card: V - 15

ORTHMAYER, Alajos, dr.; SZILAGYI. Katalin, dr.

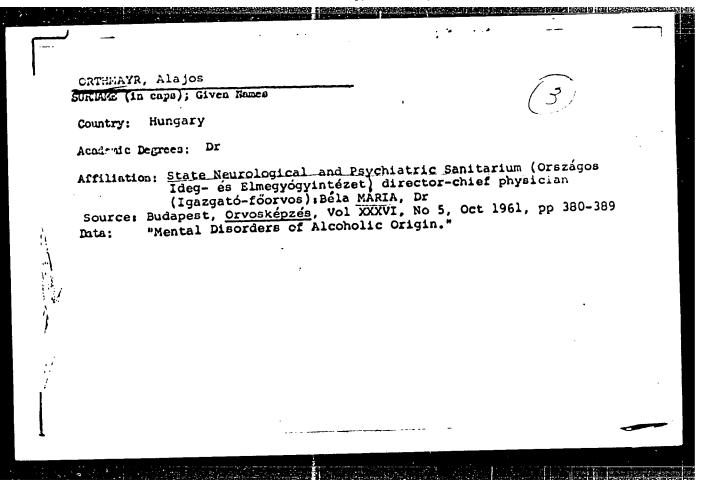
On extrapyramidal side-manifestations after the administration of neuroleptics and their prevention with promethazine. Ideg.szemle 13 no.7:203-211 Jl '60.

1. Orszagos Ideg- es Elmegyogyintexet II/A ferficsztalya (Igazgatoforvos: dr. Maria Bela)

(PROMETHAZINE ther.)

(HIBERNATION ARTIFICIAL compl)

Impressions from a trip to Poland. Ideg. szemle 13 no.11:342-345 H '60. 1. Orszagos Ideg- es Elmegyogyintezet (Igazgato foorvos: dr. Maria Bela). (PSYCHIATRY)



Jun 49

ORTMAN, G.

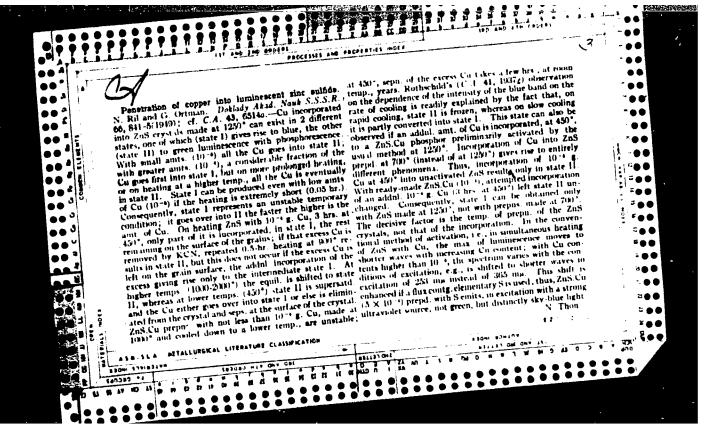
USSR/Physics Luminescence Zinc Sulfides

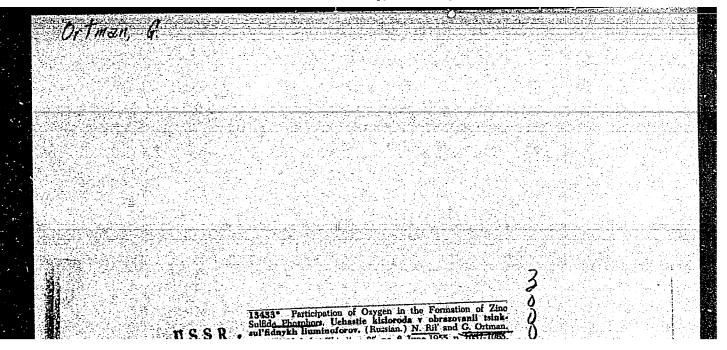
"New Observations on Zinc Sulfide Luminescence," N. Ril', G. Ortman, 4 pp

"Dok Ak Nauk SSSR" Vol LXVI, No 4

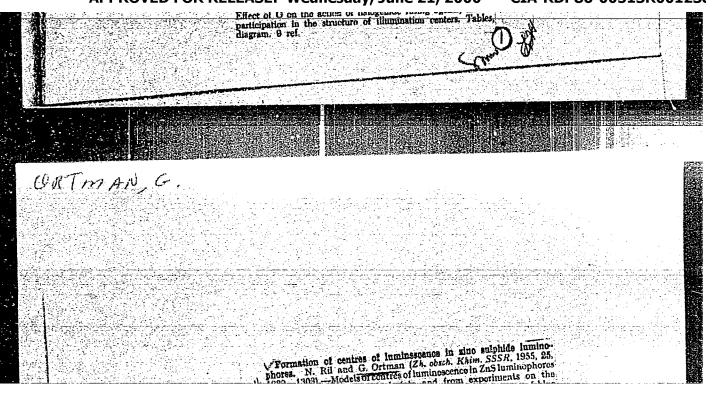
A zinc sulfide substance prepared at 1,250° has negligible luminescence. Authors took this substance and added copper (by diffusion) in proportion of 10 grams per gram of zinc sulfide. Obtained a luminophor with intense dark blue luminescence per gram of zinc sulfide. However, if instead of 10 grams of copper 16 is added, and no postluminescence. However, if instead of 10 grams of copper 16 is added, then a luminophor with usual green luminescence and prolonged phosphorescence is then a luminophor with usual green luminescence and prolonged phosphorescence is a luminophor with usual green luminescence and prolonged phosphorescence is a luminophor with usual green luminescence and prolonged phosphorescence and prolonged phosphorescence is a luminophor with usual green luminescence and prolonged phosphorescence is a luminophor with usual green luminescence and prolonged phosphorescence is a luminophor with usual green luminescence and prolonged phosphorescence and prolonged phosphore obtained. No attempt is made to explain results. Submitted by Acad S. I. Vavilov, 2 Apr 49.

PA 46/49T88

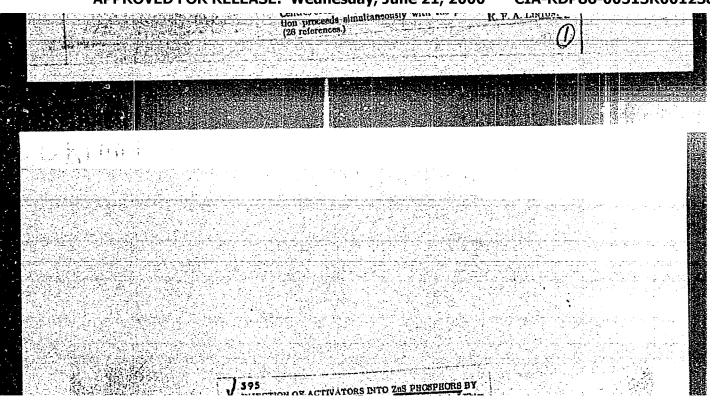




"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001238



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ORTHANII, W.

A conference and course on Industrial saiet; and migiene at Didgoszcz. [.34. (.00421M ...AC): BEMNIOSZLMATTA I .HGIMM ...AC). Vol. 10, Mo. 9, Sept. 1990) Warszave, Foland

SO: Monthly List of mast muropean Accessions (made, 10. Vol. 6, No. 40, etoner 1971, mucl.

ORTNER, A.B., inzh.; RUBTSOV, I.V.

Removal of rock during the mining of inclined workings with the help of the "Prokhodchik" machine. Shakht.stroi. 9 no.4:23-24

Ap *65. (MIRA 18:5)

1. Kombinat Kuzbassshakhtostroy (for Ortner). 2. TSentral'nyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut podzemnogo i shakhtnogo stroitel'stva (for Rubtsov).

ORTOIDZE, M. N.

"The effect of various types of cocom-supporting prints in the morphological and technological indexes of the cocom." runlished by the Georgian Agricultural Inst. Fin Higher Education USSR. deorgian Order of Labor Red manner agricultural Inst. Toilisi, 1 ju. (Dissertations for the Degree of Doctor in agricultural 5 ients)

So: Knizhnaya letolis', No. 10, 1756

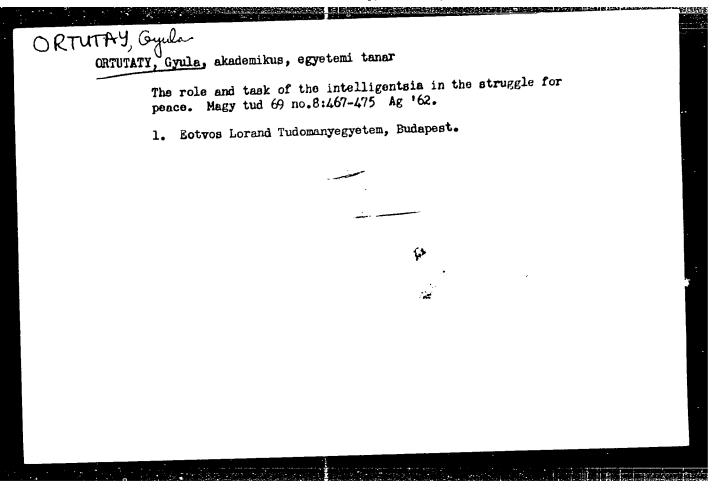
ALICHKIN, S.L.; AGRINSKIY, N.I.; ANDREYEV, G.F.; BAKUMENKO, G.D.;
VORONTSOV, S.M.; VOYSTRIKOV, I.V.; GRADYUSHKO, G.M.; ZYKOV, A.V.
IVANOVYSEV, P.V.; KINBURG, M.Ya.; KOVALEV, P.A.; KOZLOVSKIY, Ye.V.
KORNIYENKO, A.P.; KOLYAKOV, Ya.Ye.; LAKTIONOV, A.M.; LEVADNYY, B.A.
MEDUVENEV, I.D.; MOVIKOV, N.V.; ORLOV, F.M.; OSTROVSKIY, A.A.;
ORTSEV, V.P.; PERIONZHKO, A.M.; POLOZ, D.D.; PRITULIN, P.I.;
PETUHOVSKIY, A.A.; ROGALEV, G.T.; RYBAK, P.Ya.; SUTYAGIN, G.P.
TUKOV, R.A.; KHAYCHENKO, D.F.; CHERNETSKIY, T.I.; SHPAYER, N.M.
SHUSTOVSKIY, F.A.

Nikolai Vasil'evich Spesivtsev. Veterinariia 35 no.2:96 F '58.
(MIRA 11:2)
(Spesivtsev, Nikolai Vasil'evich, 1901-1957)

GLINCHUK, K.D.; MISELYUK, Ye.G.; ORTUNATOVA, N.N.

Effect of annealing on Fround levels and the life time of unbalanced current carriers in p-germanium with iron admixture. Zhur. tekh. fiz. 28 no.5:1053 My '58.

1.Institut fiziki AN USSR, Kiyev.
(Germanium) (Semiconductors)



ORTWEIN, L.

More care for game management in the northern part of Poland. p. 9.

LAS POLASKI. (Ministerstwo Lesnictwa oraz Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Lesnictwa i Drzewnictwa) Warszawa, Poland. Vol. 32, no. 8, Apr. 1958.

Monthly List of East European Accession (EEAI) LC, Vol. 9, no. 1, Jan. 1960. Uncl.

8(0)

SOV/112-58-3-3590

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1958, Nr 3, p 7 (USSR)

AUTHOR: Oru, Kh. Yu.

TITLE: Influence of the Phase at Which Alternating-Current is Broken Upon the Residual Intensity of Magnetization (O zavisimosti ostatochnoy namagnichennosti ot fazy razmykaniya peremennogo toka)

PERIODICAL Tr. Tallinsk Politekhn in-ta, 1957, A. Nr 95, p 15 ill.

ABSTRACT: In magnetic flaw detectors, a transformer is often used to produce a residual intensity of magnetization in a specimen. A magnetizing winding of the specimen is connected to the transformer secondary. An essential peculiarity of the functioning of such a device lies in the fact that the residual intensity of magnetization depends not only on the moment of the current break in the primary winding, but also on the phase shift between the specimen magnetizing current and the primary transformer current. The effects of rate of breaking the primary current, the magnitude of that current, the brand of

Card 1/2

8(0)

SOV/112-58-3-3590

Influence of the Phase at Which Alternating-Current is Broken Upon the

steel, and the moment of zero secondary current on the residual intensity of magnetization have been studied experimentally for the cases of longitudinal and circular magnetizations. The specimens were in the form of round and square rods, as well as rings of magnetically soft steel, permalloy, and medium-carbon steel. The experiments have confirmed that the undesirable influence of zero secondary current upon the specimen remanence can be minimized by reducing the magnetic-field-intensity amplitude to a certain minimum value. The processed test results on 35 specimens are presented. Bibliography: 7 items

L.A B

Card 2/2

ORU, Kh. Yu.

Cand Phys-Math Sci - (diss) "Induction of residual magnetization by alternating current for purposes of magnetic defectoscopy." Tallin, 1961. 24 pp with diagrams; (State Committee on Higher and Secondary Specialist Education of the Council of Ministers Estonian SSR, Tartu State Univ); 150 copies; free; bibliography at end of text (12 entries); (KL, 6-61 sup, 194)

ORUBA, Karel; NETUSIL, Zdenek

Titrimetric determination of sodium and ferric salts of sulfosuccinic acid esters. Chem prum 14 no.4:203-205 Ap '64.

1. Research Institute of Organic Syntheses, Pardubice - Rybitvi.

"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123{

USSR/Human and Addmal Physiology. Internal Secretion

3-T

Abs Jour : Not thur - Biol., No 14, 1990, 7: 69420

Author : Oruchov I.M., Ismayylov L.J.

Inst Title

: A Rare Case of Combine' Dimbetes Mellitus and Dimbetes

I.sipidus.

Orig Pub: Azerb. 1. bb. zh., 1957, No 9, 42-44 (azerb.), 93-95 (Auss in)

Abstract : N. abstract

Card: : 1/1

GEUD? HALIYEN, S.A.

Isothermal flow of imperfect gas under high pressure. Izv. vys.
ucheb. zzv.; neft' i gaz no. 5:115-122 '58. (MIRA 11:8)

1. Azerbsydzhenskiy industrial'nyv institut im. M.Azizhekova.
(Gas, Maturel)

Sound velocity in imperfect gas. Izv. vys. icheb. zav.; meft i gas no.8:89-96 '58. (MIRA 11:10)

1.Azerbaydzhanskiy industrial'nyy institut .m. M. Azizbekova. (Sound--Speed) (Gas. Natural)

10(2, 1), 14(5)

AUTHOR:

Orudzhaliyev, E. A.

SOV/152-59-3-24/25

TITLE:

The Discharge Velocity of a Real Gas Taking Resistance Into Account (Skorost' istecheniya real'nogo gaza s uchetom soprotivleniy)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, 1959, Nr 3, pp 113-120 (USSR)

ABSTRACT:

At high pressure, as it occurs especially in the case c. petroleum gas (250-350 atm) considerable deviations from the formulae for perfect gases occur. In this paper use is made of diagrams of compressibility as they were experimentally obtained for natural gases and published in a previous paper (Ref 7). For the derivation of the formula for the real discharge velocity from one nozzle the following data are used: the state equation pv = zRT (p = pressure, v = volume, z = coefficient of compressibility, R = gas constant. T = absolute temperature), the function pv = f(p, T) and the energy equation for the

adiabatic process $\frac{c_{1t}^2 - c_0^2}{2g} + \int_{1}^{1} vdp = 0 (c_{1t} - theoretical)$

Card 1/4

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The Discharge Velocity of a Real Gas Taking Resistance SOV/152-59-3-24/25 Into Account

discharge velocity, c = initial velocity). For the real

discharge velocity the following formula is derived:
$$c_1 = \sqrt{c_0^2 + 2g\mu_T} \frac{x}{x-1} RT_0 \left[1 - \left(\frac{p_1}{p_0}\right)^{\frac{m}{m}} + 2gRT_0 \left(z_0 - z_1\right)_T\right]$$

where: x (the index of the adiabatic curve of a real gas as

introduced by Rozen (Ref 1)) $x = \frac{c_p}{c_p - AR}$, $c_p = specific heat$

at constant pressure, μ_p = pressure-dependent coefficient of deviation from a perfect gas, z_0 , z_1 = coefficients of

compressibility at different pressures, but the same temperature, m = the index of the polytropic line of a real gas:

$$\frac{\lambda \zeta' \left\{1 + \frac{1}{\overline{\mu}_{T}} \frac{x - 1}{x} \left[(\Delta t)_{T} + \frac{c_{o}^{2}}{2g}\right]\right\} + \lambda^{\frac{2}{4\zeta}}}{1 + \zeta'}$$

Card 2/4

The Discharge Velocity of a Real Gas Taking Resistance SOV/152-59-3-24/25 Into Account

 $\lambda = \frac{p_0}{p_1}$, $(\Delta z)_T = (z_0 - z_1)_T$, k denotes the exponent of the adiabatic curve of the perfect gas.

S is the coefficient of the energy loss in the nozzle: $5' = \frac{1}{y^2} - 1$, where y is a given quantity. The coefficient of

deviation μ_T is according to Rozen $\mu_T = z - \mathcal{F}(\frac{\partial z}{\partial p})_{\mathcal{T}} \cdot (\frac{\partial z}{\partial p})$ can be determined from the diagrams of ompressibility by means of graphical differentiation. A previou paper by the author (Ref 7) shows a diagram for the determination of the coefficients of compressibility of hydrocarbon gases. Therefrom the figures required for the calculation can be derived. As gas constant

R, the value $R = \frac{848}{3}$ (is to be taken the molecular weight of the gas). There are 2 figures and 7 references, 6 of which are Soviet.

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Azerbaydzhanskiy industrial'nyy institut im. M. Azizbekova (Azerbaydzha. Industrial Institute meni M. Azizbekov)

Card 3/4

General equations of the imperfect gas flow. Ezv. vys. ucheb. zav.; neft' i gaz 2 no.5:91-97 '59. (KIRA 12:8)

l.Azerbaydzhanskiy ir-titut nefti i khimii im, M. Azizbekova. flow)

non-site and section and an experience of the property of the

Impact parameters expressed by neans of similarity criterion for gas flow under high pressures. Izv.vys.ucheb.zav.; neft i gaz 2 no.9:101-108 59. (MIRA 13:2)

1. Azerbaydzhanskiy institut nefti i khimii in. M.Azizbekova. (Gas flow)

One-dimensional flow with friction under high pressure. Izv. vys. ucheb. zav.; neft' i gaz 2 no.10:111-118 '59. (MIRA 13:2)

1.Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova. (Gas flow)

Speed of sound in superheated steam under high pressure.

Dokl. AN Azerb. SSR 15 no.4:283-287 '59. (MIRA 12:6)

1.Azerbaydzhanskiy instrumental'nyy institut im. M. Azizbekova. Predstavleno akademikom AF Azerbaydzhanskoy SSR Z.I. Khalilovym. (Sound--Speed)

ORUDZHALIYEV, E.A.

Adiabatic flow of imperfect gas in a cylindrical tube considering friction. Izv.vys.ucheb.zav.; neft' i gaz 3 no.2:129-134 (MIRA 13:6)

1. Azerbaydzhanskiy institut nefti i khimii im. M. Azizbekova. (Gas flow)

Consumption of imperfect gas in a cylindrical tube and its length transonic speed at the outlet. Izv.vys.ucheo.zav.; neft!
i gaz 3 no.3:97-102 160. (MIRA 14:10)

1. Azerbaydzhanskiy institut nefti i khimii imeni M.Azizbekova. (Gas flow)

S/152/60/000/009/001/002 B004/B064

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AUTHOR:

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TITLE:

Determination of the Specific Heat of a Real Gas From

Experimental Data Obtained With Ultrasonics

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Neft' i gaz, 1960,

No. 9, pp. 113-116

TEXT: To determine the specific heat of gases, the author used experimental data on the compressibility of gases under the action of ultrasonics. Proceeding from the equations: 1) for the velocity of sound a in the gas, a = $\sqrt{(3p/3\rho)}_8$ (1) (s denotes isoentropic conditions); 2) the thermodynamic differential equation $(3p/3v)_8$ = $(c_p/c_v)(3p/3v)_T$ (3); and 3) the equation of state pv = zRT (5) (z is the coefficient of compressibility), the author obtains the following equations for c_v and c_p :

Card 1/3

Determination of the Specific Heat of a Real Gas From Experimental Data Obtained With Ultrasonics

$$c_{v} = \frac{AgR^{2}Tz^{2}\left[z + T\left(\frac{\partial z}{\partial T}\right)\right]^{2}}{a^{2}\left[z - p\left(\frac{\partial z}{\partial p}\right)_{T}\right]^{2} - gRTz^{2}\left[z - p\left(\frac{\partial z}{\partial p}\right)_{T}\right]}$$

$$c_{p} = \frac{AR \left[z + T\left(\frac{\partial z}{\partial T}\right)_{p}\right]^{2} a^{2}}{a^{2} \left[z - p\left(\frac{\partial z}{\partial p}\right)_{T}\right] - gRTz^{2}}$$

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(17)

These equations are also expressed by the parameters π = $p/p_{k}^{},~\gamma$ = $T/T_{k}^{}$ Card 2/3

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Determination of the Specific Heat of a Real Gas From Experimental Data Obtained With Ultrasonics S/152/60/000/009/001/002 B004/B064

where p_k denotes the critical pressure, and T_k the critical temperature. The diagrams for the compressibility of gases can be represented as $z = f(p)_T$ or $z = f(\pi)_T$ with z resulting herefrom, and $(\partial z/\partial p)_T$, $(\partial z/\partial \gamma)_T$ can be obtained by graphical differentiation. For the partial differential coefficients $(\partial z/\partial T)_p$, $(\partial z/\partial \gamma)_T$, the diagrams of compressibility must be redrawn as $z = f(T)_p$ or $z = f(\gamma)_T$. The author refers to his paper (Ref. 4) showing such diagrams for gaseous hydrocarbons. There are 4 Soviet references.

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SUBMITTED: June 3, 1959

Card 3/3